

IN THE CLAIMS

1-37 (cancelled)

~~1 38.~~ (previously presented) A system for
automatically positioning an antenna comprising:

a motor arranged to be coupled to the antenna;
and,

a controller coupled to the motor, wherein the
controller is arranged to control the motor in response
to selection of a channel so as to automatically drive
the antenna to a position at which the antenna is aimed
at a source of a signal associated with the selected
channel, wherein the controller operates the motor to
drive the antenna to the position based upon a location
of the signal source and a location of the antenna,
wherein the controller is arranged to receive the signal
from the positioned antenna and to process the received
signal so as to improve reception of the received signal,
and wherein the processing of the received signal is
dependent upon the position.

~~2 39.~~ (previously presented) The system of
claim ~~38~~ wherein the controller stores a location of a
known offending source, and where the controller
processes the received signal by reducing reception of a

signal from the known offending source based upon the stored location of the known offending source.

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~~40~~. (previously presented) The system of claim ²~~39~~ wherein the antenna has a reception path between the antenna and the signal source, and wherein the controller blocks reception of the signal from the known offending source only if the known offending source is effectively in the reception path between the antenna and the signal source.

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~~41~~. (previously presented) The system of claim ²~~39~~ wherein the controller includes an FM trap to notch out a signal from the known offending source.

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~~42~~. (previously presented) The system of claim ¹~~38~~ wherein the controller includes a variable gain amplifier electrically coupled between the antenna and a receiver tuned to the channel selected by the user, wherein the controller processes the received signal by controlling the gain of the variable gain amplifier according to the location of the signal source so as to improve reception of the received signal.

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~~43~~. (previously presented) The system of
claim ~~38~~ wherein the location of the antenna is supplied
by a global position sensor.

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~~44~~. (previously presented) The system of
claim ~~38~~ wherein the controller is arranged to operate
the motor in response to a compass reading derived from a
compass.

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~~45~~. (previously presented) The system of
claim ~~38~~ wherein the controller is arranged to cancel
ghosts depending upon the position of the antenna.

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~~46~~. (previously presented) The system of
claim ~~38~~ wherein the antenna comprises first and second
antennas, and wherein the controller is arranged to
switch between the first and second antennas depending
upon the channel selected by the user.

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~~47~~. (previously presented) The system of
claim ~~38~~ wherein the location of the signal source and
the location of the antenna are global locations.

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~~48~~. (previously presented) A method of
automatically positioning an antenna having a motor
coupled thereto comprising:

controlling the motor so as to drive the motor
automatically in response to selection of a channel to a
position at which the antenna is aimed at a source of a
signal associated with the selected channel;

receiving a signal from the positioned antenna;
and,

processing the received signal so as to improve
reception of the received signal, wherein the processing
of the received signal is dependent upon the position.

Cont.
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¹³ ~~48~~. (previously presented) The method of
claim ~~48~~ further comprising storing a location of a known
offending source, wherein the processing of the received
signal comprises reducing reception of a signal from the
known offending source based upon the stored location of
the known offending source.

¹⁴ ~~49~~. (previously presented) The method of
claim ~~49~~ wherein the antenna has a reception path between
the antenna and the signal source, and wherein the
reducing of reception of a signal from the known
offending source comprises blocking reception of the

signal from the known offending source only if the known offending source is effectively in the reception path between the antenna and the signal source.

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¹⁴ ~~51~~. (previously presented) The method of claim ~~48~~ wherein the reducing of reception of a signal from the known offending source comprises notching out a signal from the known offending source.

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¹³ ~~52~~. (previously presented) The method of claim ~~48~~ wherein the processing of the received signal comprises controlling the gain of a variable gain amplifier according to the location of the signal source so as to improve reception of the received signal.

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¹³ ~~53~~. (previously presented) The method of claim ~~48~~ further comprising supplying the location of the antenna by way of a global position sensor.

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¹³ ~~54~~. (previously presented) The method of claim ~~48~~ wherein the controlling of the motor comprises driving the motor in response to a compass reading derived from a compass.

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¹³ ~~55~~. (previously presented) The method of
claim ~~48~~ further comprising canceling ghosts depending
upon the position of the antenna.

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¹³ ~~56~~. (previously presented) The method of
claim ~~48~~ wherein the antenna comprises first and second
antennas, and wherein the method further comprises
switching between the first and second antennas depending
upon the channel selected by the user.

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¹³ ~~57~~. (previously presented) The method of
claim ~~48~~ wherein the location of the signal source and
the location of the antenna are global locations.

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~~58~~. (new) The system of claim ¹~~38~~ wherein the
controller includes an FM trap to notch out a signal from
the known offending source, and wherein the controller
processes the received signal by controlling FM trap
according to the location of the signal source so as to
improve reception of the received signal.

¹²
~~59~~. (new) The system of claim ¹~~38~~ wherein the
controller processes the received signal by controlling a
circuit in a signal processing path so as to improve
reception of the received signal.

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~~60~~. (new) The method of claim ¹³~~48~~ wherein the processing of the received signal includes controlling an FM trap to notch out a signal from the known offending source according to the location of the signal source.

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~~61~~. (new) The method of claim ¹³~~48~~ wherein the processing of the received signal comprises controlling a circuit in a signal processing path so as to improve reception of the received signal.

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